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L4 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN

AB Aqueous gel formulations, including an immune response modifier (IRM), such as those chosen from imidazoquinoline amines, tetrahydroimidazoquinoline amines, imidazopyridine amines, 6,7-fused cycloalkylimidazopyridine amines, 1,2-bridged imidazoquinoline amines, imidazonaphthylidine amines, imidazotetrahydronaphthylidine amines, oxazoloquinoline amines, thiazoloquinoline amines, oxazolopyridine amines, thiazolopyridine amines, oxazonaphthylidine amines, thiazolonaphthylidine amines, pyrazolopyridine amines, pyrazoloquinoline amines, tetrahydropyrazoloquinoline amines, pyrazolonaphthylidine amines, tetrahydropyrazolonaphthylidine amines, and 1 H-imidazo dimers fused to pyridine amines, quinoline amines, tetrahydroquinoline amines, naphthylidine amines, or tetrahydronaphthylidine amines, are provided. Methods of use and kits are also provided. For example, gel was prepared containing 4-(4-amino-2-propyl-1H-imidazo[4,5-c]quinolin-1-yl)-N-propylbutyramide 0.1%, 0.25N ethanesulfonic acid 0.594%, Carbomer 974P 2.1%, propylene glycol 15%, methylparaben 0.15%, propylparaben 0.03%, edetate disodium 0.05%, 20% tromethamine solution 1.5% and purified water 80.48%.

AN 2006:795800 CAPLUS

DN 145:235790

TI Aqueous gel formulations containing immune response modifiers

IN Ma, David G.; Perman, Christopher S.; Skwierczynski, Raymond D.

PA 3M Innovative Properties Company, USA

SO PCT Int. Appl., 123pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2006084251	A2	20060810	WO 2006-US4201	20060203
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	CA 2597092	A1	20060810	CA 2006-2597092	20060203
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	EP 1844201	A2	20071017	EP 2006-720400	20060203

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IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL,
BA, HR, MK, YU

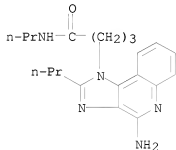
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US	20090163532	A1	20090625	US 2008-883665	20080819
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IT 866649-05-0

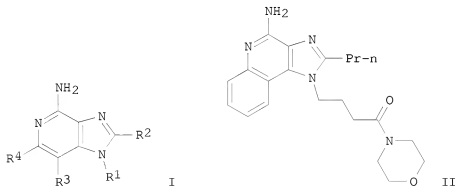
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(aqueous gel formulations containing immune response modifiers)

RN 866649-05-0 CAPLUS

CN 1H-Imidazo[4,5-c]quinoline-1-butanamide, 4-amino-N,2-dipropyl- (CA INDEX
NAME)



L4 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
GI



AB Title compds. I [R1 = amide linked via alkyl, alkylene, or alkylalkylene;

R2 = H or a non-interfering substituent; R3 and R4 independently = H, halo, alkyl, alkoxy, etc.], pharmaceutical compns. containing the compds., intermediates, and methods of making and methods of use of these compds. as immunomodulators, for modulating cytokine biosynthesis in animals and in the treatment of diseases including viral and neoplastic diseases are disclosed. Thus, e.g., II was prepared by amidation of Et 4-(2-propyl-1H-imidazo[4,5-c]quinolin-1-yl)butanoate (preparation given) with morpholine and subsequent oxidation/amination. Methods are described for assaying cytokine induction (no data).

2005:1103493 CAPLUS

AN 143:387036

DN 143:387036

TI Preparation of amide-substituted imidazopyridines, imidazoquinolines, and imidazonaphthyridines

IN Krepski, Larry R.; Dellaria, Joseph F., Jr.; Duffy, Daniel E.; Amos, David T.; Zimmermann, Bernhard M.; Moser, William H.

PA 3M Innovative Properties Company, USA

SO PCT Int. Appl., 234 pp.

CODEN: PIXXD2

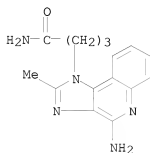
DT Patent

LA English

FAN.CNT 1

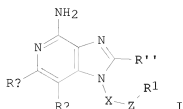
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				US 2004-578769P	P 20040610
AU	2005228150	A1	20051013	AU 2005-228150	20050324
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				WO 2005-US9880	W 20050324
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EP	1730143	A2	20061213	EP 2005-731309	20050324
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
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US	20070219196	A1	20070920	US 2006-599159	20060921

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IN	2006CN03484	A	20070615	IN 2006-CN3484	20060922
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				WO 2005-US9880	W 20050324
OS	CASREACT 143:387036; MARPAT 143:387036				
IT	1026420-75-6				
	RL: PRPH (Prophetic)				
	(Preparation of amide-substituted imidazopyridines, imidazoquinolines, and imidazonaphthyridines)				
RN	1026420-75-6 CAPLUS				
CN	1H-Imidazo[4,5-c]quinoline-1-butanamide, 4-amino-2-methyl- (CA INDEX NAME)				

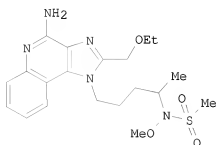


RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
GI



I



II

AB Title compds. [I; Z = -C(:N-OR2)- or CH-N(OR2)(YR3); X = CHR9, -CH(R9)-alk(en)ylene-, etc.; R9 = H, alkyl; R1 = H, (un)substituted alkyl, alkylene/hetero/aryl, etc.; R2, R3 = independently H, (un)substituted alk(en)yl, hetero/aryl, hetero/arylalkylenyl, etc.; Y = a bond, C:O, C:S, SO2, etc.; RA, RB = independently H, halo, alk(en)yl, etc.; RACCRB = (un)substituted fused hetero/aryl, fused 5-7-membered saturated ring], were prepared as immunomodulators for inducing cytokine biosynthesis in animals and in the treatment of diseases including viral and neoplastic diseases. For example, reacting 5-[4-Amino-2-(ethoxymethyl)-1H-imidazo[4,5-c]quinolin-1-yl]pentan-2-one with NH2OH•HCl in the presence of NaBH3CN/ACOH/EtOH, and substitution with mesyl anhydride gave imidazoquinoline II (m.p. = 146-148°). Certain I may modulate cytokine biosynthesis by inhibiting production of tumor necrosis factor TNF-α when tested in mouse cells (no data).

AN 2005:493478 CAPLUS

DN 143:43875

TI Preparation of hydroxylamine and oxime substituted imidazoquinolines, imidazopyridines, and imidazonaphthyridines as inducers of cytokine biosynthesis for treatment of viral and neoplastic diseases

IN Krepiski, Larry R.; Dellaria, Joseph F., Jr.; Duffy, Daniel E.; Amos, David T.; Zimmermann, Bernhard M.; Squire, David J.; Marszalek, Gregory J.; Heppner, Philip D.; Kshirsagar, Tushar A.

PA 3M Innovative Properties Company, USA

SO PCT Int. Appl., 305 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005051324	A2	20050609	WO 2004-US39673	20041124

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			US 2004-580139P P 20040616
			US 2004-581293P P 20040618
AU 2004293096	A1	20050609	AU 2004-293096 20041124
			US 2003-524961P P 20031125
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CA 2547085	A1	20050609	CA 2004-2547085 20041124
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EP 1686992	A2	20060809	EP 2004-812235 20041124
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CN 1905874	A	20070131	CN 2004-80040953 20041124
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			US 2004-580139P P 20040616
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			WO 2004-US39673 W 20041124
US 20070099901	A1	20070503	US 2006-595859 20060518
			US 2003-524961P P 20031125
			US 2004-580139P P 20040616
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			WO 2004-US39673 W 20041124
IN 2006CN01847	A	20070608	IN 2006-CN1847 20060525
			US 2003-524961P P 20031125
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ZA 2006005216	A	20070425	ZA 2006-5216 20060623
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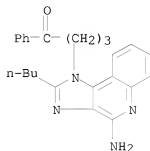
PATENT FAMILY INFORMATION:

FAN 2005:490270

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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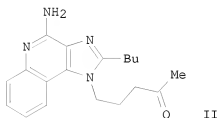
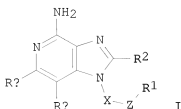
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KR	2006125818	A	20061206	KR 2006-712734	20060623
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FAN	2007:705671		
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PI	US 20070149098	A1	20070628
	US 7567855	B2	20090728
	US 2005-734989P	P	20051110
OS	CASREACT 143:43875; MARPAT 143:43875		
IT	853010-62-5P, 4-(4-Amino-2-butyl-1H-imidazo[4,5-c]quinolin-1-yl)-1-phenylbutan-1-one		
	RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)		
	(intermediate; preparation of hydroxylamine and oxime substituted imidazoquinolines, imidazonaphthyridines, and imidazopyridines as inducers of cytokine biosynthesis for treatment of viral and neoplastic disease)		
RN	853010-62-5	CAPLUS	
CN	1-Butanone, 4-(4-amino-2-butyl-1H-imidazo[4,5-c]quinolin-1-yl)-1-phenyl-		
	(CA INDEX NAME)		



RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
GI



AB Title compds. [I; X = alkylene optionally interrupted by one or more -O-; Z = C:O, -C(:O)O-, -C(OR3)2-; R1 = H, (un)substituted alkyl, alkylene/aryl, alkylene/heteroaryl; Q = O, S; R3 = (un)substituted alkyl, alkylene/aryl, alkylene/heteroaryl; R2 = H, (un)substituted alk(en/yn)yl, hetero/aryl, alkylenealkyl, etc.; RA, RB = independently H, halo, alk(en)yl, alkoxy, alkylthio, NH2 and derivs.; or RACCRB = (un)substituted fused aryl ring or fused 5-7-membered saturated ring; and their pharmaceutically acceptable salts], were prepared as immunomodulators for inducing cytokine biosynthesis in animals and in the treatment of diseases including viral and neoplastic diseases. For example, II was prepared by reacting 4-(2-Butyl-1H-imidazo[4,5-c]quinolin-1-yl)butyraldehyde (preparation given) with MeMgBr, followed by oxidation, reductive amination of the ketone, oxidation with m-CPBA/reaction with NH4OH. I have been found to induce cytokine biosynthesis by inhibiting production of tumor necrosis factor TNF- α when tested on an in vitro human blood cell system (no data).

AN 2005:490270 CAPLUS

DN 143:26611

TI Preparation of oxime substituted imidazo-containing compounds, particularly imidazoquinolines, as inducers of cytokine biosynthesis for treatment of viral and neoplastic diseases

IN Krepski, Larry R.; Dellaria, Joseph F., Jr.; Duffy, Daniel E.; Radmer, Matthew R.; Amos, David T.

PA 3M Innovative Properties Company, USA

SO PCT Int. Appl., 200 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 3

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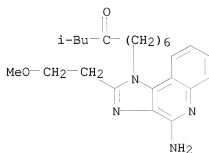
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RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG		
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			US 2004-580139P P 20040616
			WO 2004-US39512 W 20041124
CN 1926138	A	20070307	CN 2004-80040954 20041124
			US 2003-524961P P 20031125
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			WO 2004-US39512 W 20041124
JP 2007512370	T	20070517	JP 2006-541697 20041124
			US 2003-524961P P 20031125
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			WO 2004-US39512 W 20041124
SG 148201	A1	20081231	SG 2008-8728 20041124
			US 2003-524961P P 20031125
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MX 2006005910	A	20060823	MX 2006-5910 20060524
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IN 2006CN01848	A	20070608	IN 2006-CN1848 20060525
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KR 2006125818	A	20061206	KR 2006-712734 20060623
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			US 2004-580139P P 20040616
			WO 2004-US39512 W 20041124
ZA 2006005216	A	20070425	ZA 2006-5216 20060623
			US 2003-524961P P 20031125

PATENT FAMILY INFORMATION:
FAN 2005:493478

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005051324	A2	20050609	WO 2004-US39673	20041124
	WO 2005051324	A3	20060105		
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				US 2004-580139P	P 20040616
				US 2004-581293P	P 20040618
AU 2004293096	A1	20050609	AU 2004-293096		20041124
			US 2003-524961P	P 20031125	
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CA 2547085	A1	20050609	CA 2004-2547085		20041124
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EP 1686992	A2	20060809	EP 2004-812235		20041124
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CN 1905874	A	20070131	CN 2004-80040953		20041124
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US 20070099901	A1	20070503	US 2006-595859		20060518
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			US 2003-524961P	P 20031125	
FAN 2007:705671					

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20070149098	A1	20070628	US 2006-595959	20061113
	US 7567855	B2	20090728		
OS	CASREACT 143:26611; MARPAT 143:26611				
IT	1045444-34-5				
	RL: PRPH (Prophetic)				
	(Preparation of oxime substituted imidazo-containing compounds, particularly imidazoquinolines, as inducers of cytokine biosynthesis for treatment of viral and neoplastic diseases)				
RN	1045444-34-5 CAPLUS				
CN	4-Decanone, 10-[4-amino-2-(2-methoxyethyl)-1H-imidazo[4,5-c]quinolin-1-yl]-2-methyl- (CA INDEX NAME)				



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
 RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
 AB Pharmaceutical formulations in an aqueous (preferably, sprayable) formulation including an immune response modifier (IRM), such as those chosen from imidazoquinoline amines, tetrahydroimidazoquinoline amines, imidazopyridine amines, 6,7-fused cycloalkylimidazopyridine amines, 1,2-bridged imidazoquinoline amines, imidazonaphthyridine amines, imidazotetrahydronaphthyridine amines, oxazoloquinoline amines, thiazoloquinoline amines, oxazopyridine amines, thiazolopyridine amines, oxazolophthyridine amines, thiazolonaphthyridine amines, and 1H-imidazo dimers fused to pyridine amines, quinoline amines, tetrahydroquinoline amines, naphthyridine amines, or tetrahydronaphthyridine amines, are provided. In one embodiment, the aqueous formulations are advantageous for treatment and/or prevention of allergic rhinitis, viral infections, sinusitis, and asthma. For example, N-[2-[4-amino-2-(ethoxymethyl)-1H-imidazo[4,5-c]quinolin-1-yl]-1,1-dimethylethyl]methanesulfonamide (IRM 1) was prepared as a 0.375% aqueous solution capable of being nasally administered via a spray pump. The solution contained IRM 1 0.375%, CM-cellulose sodium 0.1%, benzalkonium chloride 0.02%, disodium EDTA 0.1%, L-lactic acid 1.53%, PEG 400 15%, 1N NaOH as needed for pH 4.0, and water to 100%. The IRM 1 solution (50 µL) administered to rats once 4 h before infection with humanized, non-lethal influenza virus, almost completely suppressed the virus. titer.

AN 2005:160991 CAPLUS
 DN 142:246181
 TI Formulations containing an amine-based immune response modifier
 IN Hammerbeck, David M.; Guy, Cynthia A.; Leung, Suzanne S.
 PA 3M Innovative Properties Company, USA
 SO PCT Int. Appl., 118 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005016275	A2	20050224	WO 2004-US25277	20040805
	WO 2005016275	A3	20050414		
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	RM: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2004264336	A1	20050224	US 2003-493109P	P 20030805
				AU 2004-264336	20040805
				US 2003-493109P	P 20030805
				WO 2004-US25277	W 20040805
	CA 2534313	A1	20050224	CA 2004-2534313	20040805
				US 2003-493109P	P 20030805
				WO 2004-US25277	W 20040805
	US 20050070460	A1	20050331	US 2004-911800	20040805
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	EP 1651190	A2	20060503	EP 2004-780166	20040805
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				US 2003-493109P	P 20030805
				WO 2004-US25277	W 20040805
	JP 2007501252	T	20070125	JP 2006-522714	20040805
				US 2003-493109P	P 20030805
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				WO 2004-US25277	W 20040805

PATENT FAMILY INFORMATION:

FAN 2005:158509

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PI	WO 2005016273	A2	20050224	WO 2004-US25241	20040805
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 SN, TD, TG

AU 2004264330 A1 20050224 US 2003-493109P P 20030805
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CA 2534625 A1 20050224 CA 2004-2534625 20040805
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EP 1651216 A2 20060503 EP 2004-780131 20040805
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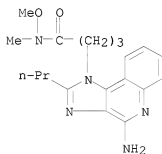
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JP 2007501251 T 20070125 JP 2006-522709 20040805
 US 2003-493109P P 20030805
 WO 2004-US25241 W 20040805

IT 845638-60-0
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (solns. containing amine-based immunomodulators)

RN 845638-60-0 CAPLUS

CN 1H-Imidazo[4,5-c]quinoline-1-butanamide,
 4-amino-N-methoxy-N-methyl-2-propyl- (CA INDEX NAME)



RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT